1	ABSTRACT
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An optical transceiver module is disclosed with improved 4 digital diagnostic integrated circuits. The optical transceiver 5 includes an electrical-to-optical transmitter and an optical-to-6 7 electrical receiver each coupled to a digital diagnostic 8 integrated circuit. A bi-directional 2-wire control interface is provided and a microcontroller couples the digital diagnostic 9 10 integrated circuit to the control interface. Various methods are 11 described for using the microcontroller to incorporate changes or 12 diagnostic functions in the digital diagnostic integrated 13 circuit.